ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

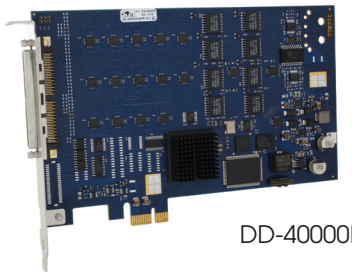
Find the *DDC DD-40100F* at our website: *Click HERE*

PCIe/PMC/PCI/cPCI/PXI Boards
with up to 36 ARINC 429 Channels & ARINC 717

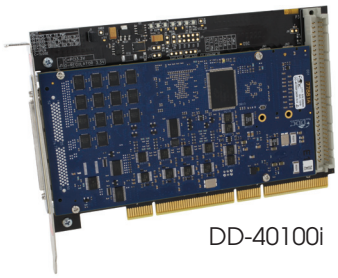
Connectivity Power Control

Product Brief

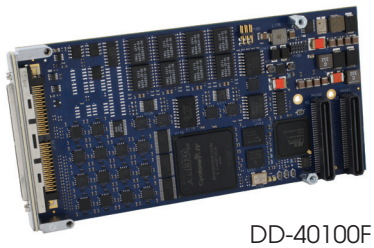
Model: DD-40X00X



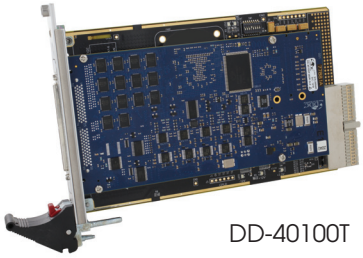
DD-40000K



DD-40100i



DD-40100F



DD-40100T

ARINC 429
ARINC 717
DISCRETE

The world's only boards offering up to 36 ARINC 429 Channels that can be individually programmed for Transmit/Receive functionality with parametric test features, variable output voltage, and voltage monitoring on board. Providing an optimal solution for both commercial and military test applications, DDC's ARINC 429/717 series offers flexibility and efficiency by enabling users to configure I/O mix and use one board for all levels of testing and simulation.

Key Features

- Front I/O PMC, PCI, & cPCI/PXI Boards
- x1 Lane Bridgeless PCIe Board with MSI IRQ Support
- DMA Engine for Ultra Low CPU & PCI/PCIe Utilization
- 6, 10, 18, or 36 Prog. Tx/Rx ARINC 429 Channels
- Up to 2 Prog. Tx/Rx ARINC 717 Channels
- Up to 16 Avionics Discrete I/O
- IRIG-B Input & Output
- Variable Output Voltage on 8 Channels
- Voltage Monitoring with Scope View on 8 Channels
- 48-bit/100ns Time Tag
- Programmable Speed Per Channel (500bps - 200Kbps)
- Full Error Detection & Injection Per Message
  - Variable Inter-Message Bit Gap from 1 to 32K Bits
  - Variable ARINC Message Length from 2 to 33 Bits
  - Parity Selection
- Real Time Asynchronous Message Insertion
- Real Time Data Modification
- Fully Independent Channel Operation
- FIFO or Mailbox Rx Methods
- Label/SDI Filtering Per Channel
- Onboard Hardware Scheduler
- Bus Playback
- RoHS Compliant

Benefits

- Programmable Tx/Rx ARINC Channels
  - Provides Complete Flexibility to Define Your I/O Mix
  - Facilitate Hardware In-the-Loop Testing and Integration
- Variable ARINC Speed Output Allows Compatibility with Many ARINC Specifications that Run a Different Defined Speed
- Voltage Monitoring Allows for Debug of Your ARINC Bus Without a Scope

Applications

- Systems Integration Labs
- Simulators
- Production Test Stands
- Automated Test
- Commercial Aerospace
- New Product Development
- System Troubleshooting
- Portable Testers
- Flight Line Diagnostics
- Flight Testing
- Software Development
- Data Loading
- Data Monitoring
- Bus Debugging & Diagnostics

Need a Custom Solution?
DDC can customize designs for all products, ranging from simple modifications of standard products to fully customized solutions for commercial, military, aerospace, and industrial applications.

For more information: www.ddc-web.com/DD-40X00X

© 2012 Data Device Corporation. All trademarks are the property of their respective owners.

Ordering Information

DD-40X00X XXX R-XL0

Operating Temperature:
- **JL** = 0°C to +55°C (PCI & cPCI/PXI Boards only)
- **3L** = 0°C to +71°C (PCI-Express & Front I/O PMC Boards only)

I/O Option	# of 429 Ch	# of 717 Ch	Avionics Discrete I/O	IRIG-B In & Out	Voltage Monitoring	Variable Voltage Output
060	6	0	0	✓	0	0
100	10	2	16	✓	8	8
180	18	2	16	✓	8	8
360	36	2	5	✓	8	8

Card Type:
- **40000K** = PCI-Express Board
- **40100F** = Front I/O PMC Board
- **40100i** = PCI Board
- **40100T** = cPCI/PXI Board

Included Software Development Kits:
- 32-bit Windows® XP Support
- 32/64-bit Windows Vista/7/8/10/Server 2008/Server 2011 Support
- .NET Support Available - Contact Factory
- 32/64-bit Linux® Support
- VxWorks Support - Contact Factory

Included Accessories:
- Mating Connector and Shell

Optional Cables:
- PCIe: P/N DDC-78149-1
- PMC/PCI/cPCI: P/N DDC-78149-2



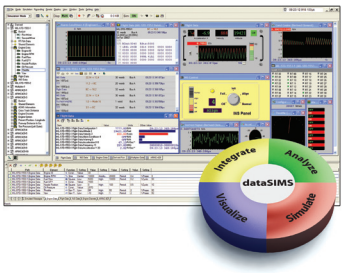
Optional Software:

Commercial Avionics Utilities



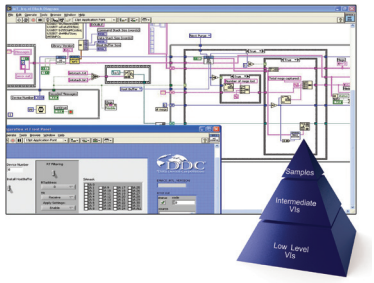
Model: DD-42999S0-XX0
- Graphical ARINC 429 data bus analysis and simulation
- Advanced filtering, message scheduling, and triggering
- Graphical ARINC 615 data loader to load data to and from airborne computers

dataSIMS
Avionics Data Bus Test & Analysis Software



Model: BU-69414DS-64VM
- Accelerates development and deployment
- Eliminates cost of learning and maintaining separate software programs
- Easy-to-use and customize
- Supports all data protocols and I/O formats

LabVIEW® & LabVIEW Real-Time Support



Model: BU-69093S0-XX0
- Simple interface for quick startup and easy programming
- Access real-time 1553/429 data using LabVIEW
- Easily integrate data from different types of instruments and sensors
- Create custom user interface from scratch or by modifying samples

DATA DEVICE CORPORATION
REGISTERED TO:
ISO 9001:2008, AS9100C:2009-01
EN9100:2009, JIS Q9100:2009
FILE NO. 10001296 ASH09



The information in this Flyer is believed to be accurate; however, no responsibility is assumed by Data Device Corporation for its use, and no license or rights are granted by implication or otherwise in connection therewith. Specifications are subject to change without notice.

For ordering assistance and technical support,
E-Mail: service@ddc-web.com
Visit: ddc-web.com Data Device Corporation
Call: HQ, N.Y., U.S.A 1-800-DDC-5757 | (631) 567-5600
UK +44-(0)1635-811140
France +33-(0)1-41-16-3424
Germany +49-(0)89-1500-12-11
Japan +81-(0)3-3814-7688
Asia +65-6489-4801
India +91 080 301 10 200

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP